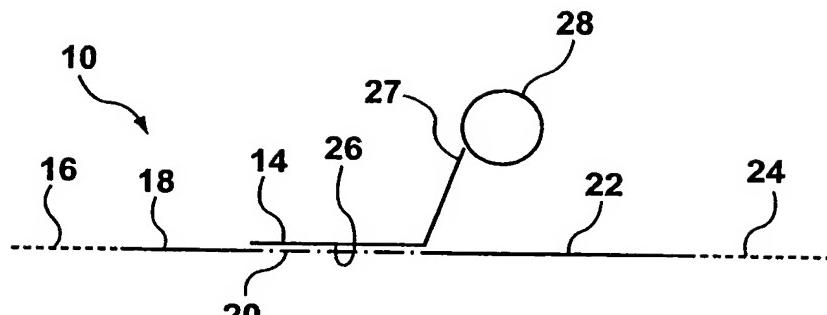
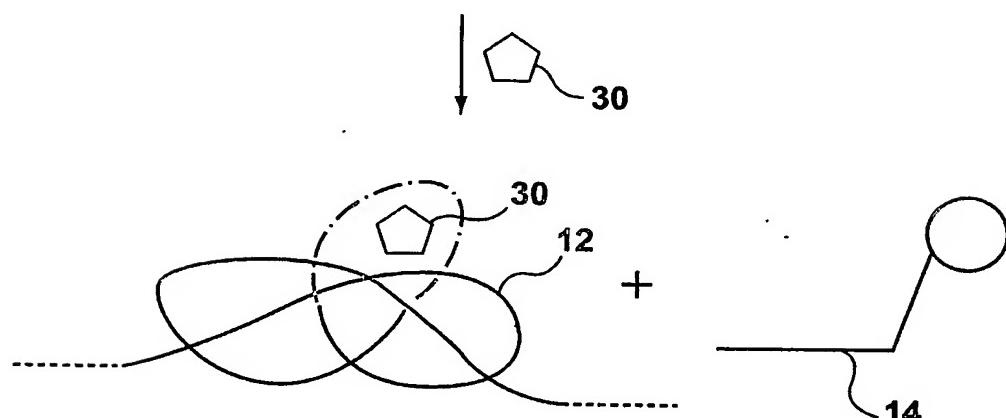
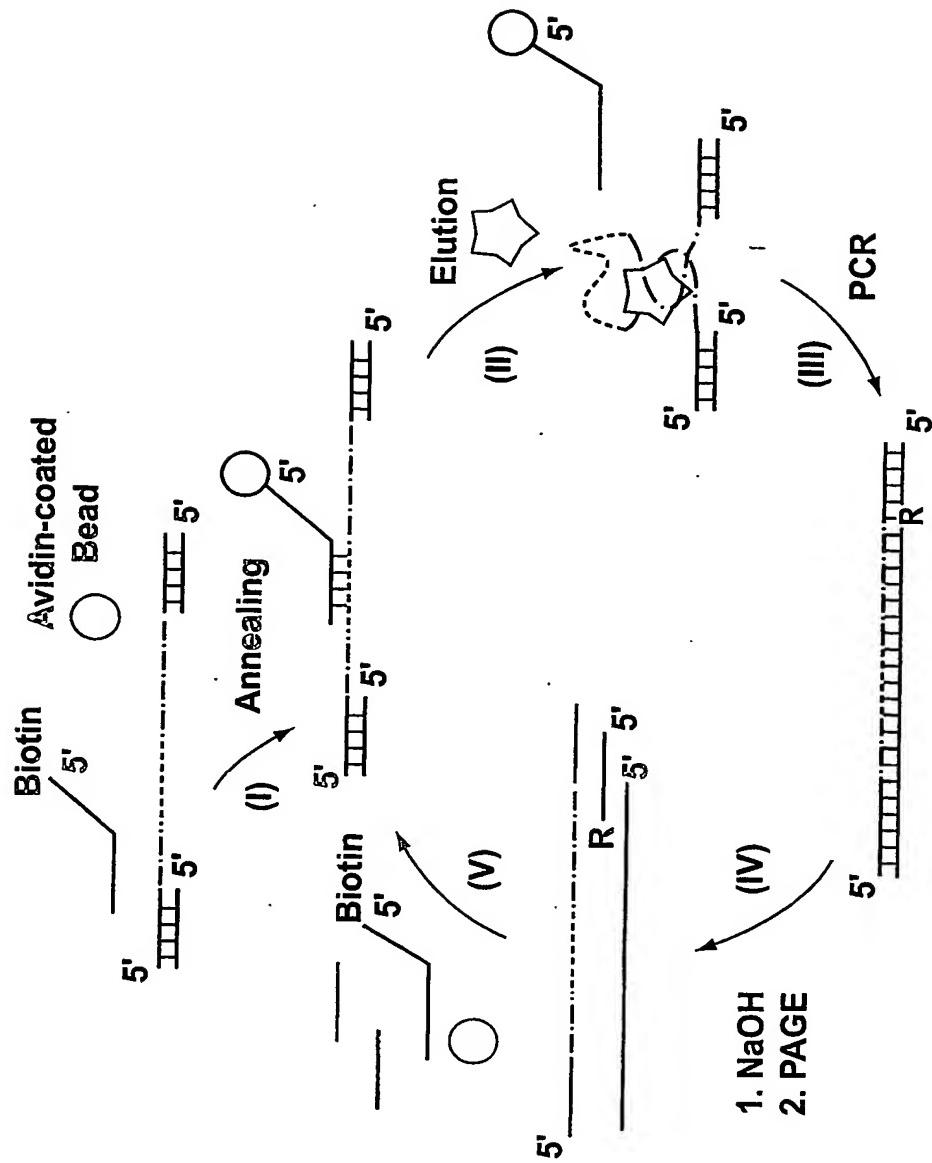


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**FIG. 1A****FIG. 1B****FIG. 1C**

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**FIG. 2**

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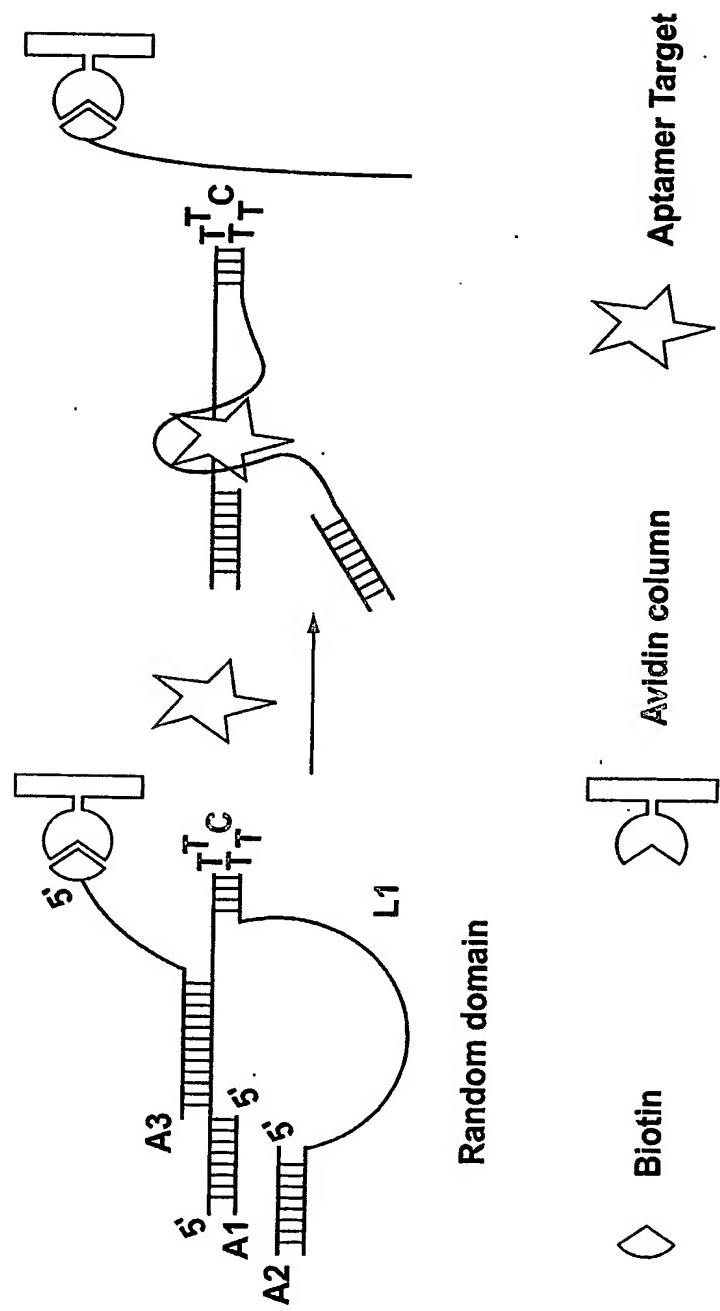
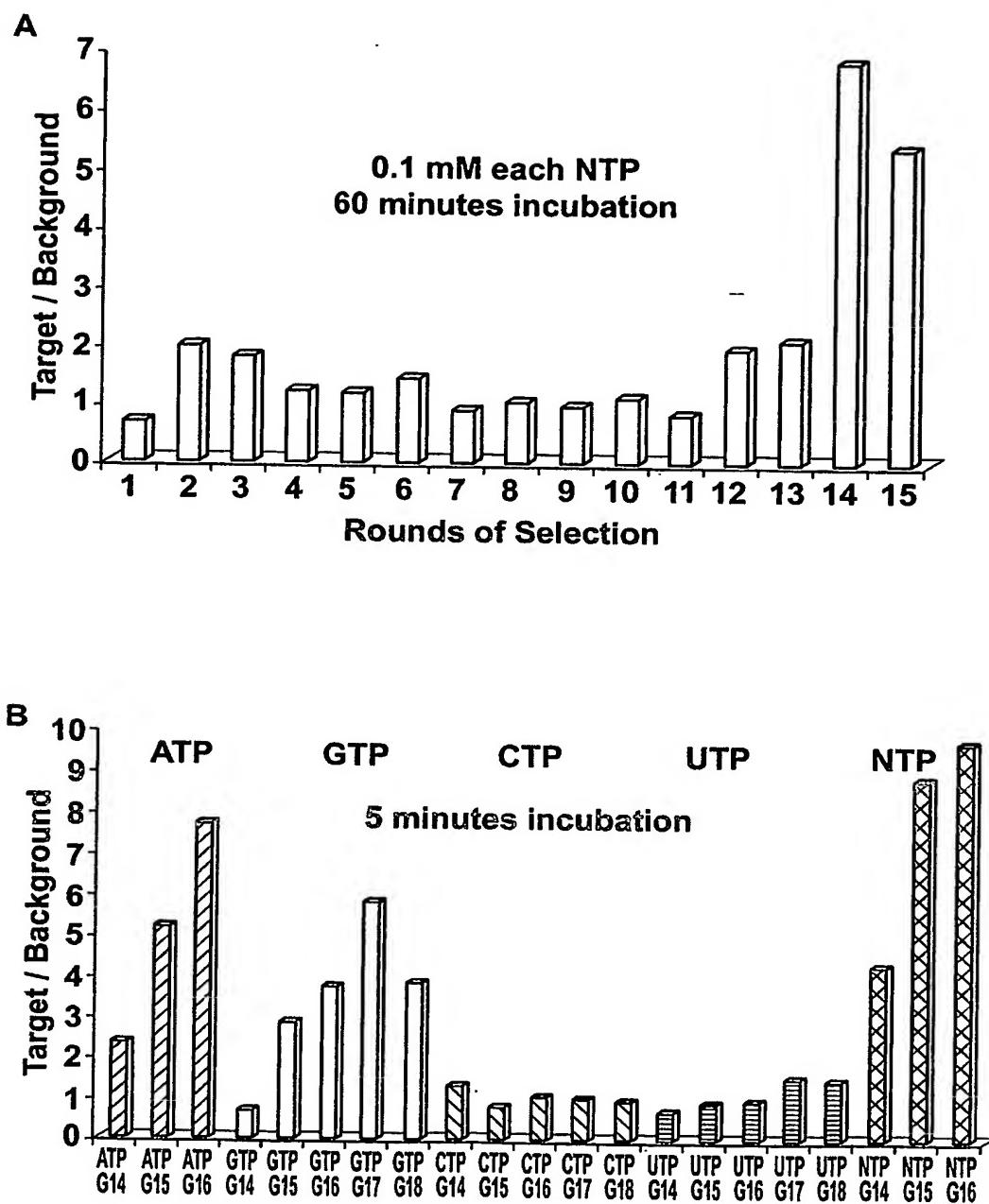


FIG. 3

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**FIG. 4**

A Library
AAGCTNNNNNNNCTGCAGCGATTCTGATCGNNNNNNNNNNNNNN

B ATP Aptamer

Class I

1ATP1 AxxCTTCGGAGGAGTTCTGCAGCGATTxCTTGATCGGGGACGGGGGAGAAAGGTTT
 1ATP2 AxxCTTCGGAGGAGTTCTGCAGCGATxCTTGATCGGGGACGGGGGAGAAAGGTGT
 1ATP3 AxxCTTCGGAGGAGTTCTGCAGCGATxCTTGATCGGGGAGAAAGGTTT

Class II

2ATP1 AAXCTTTGGAGGAGATCxGCAGCGATTCTGATCGTCATCGGGGAGAAGTGATA
 2ATP2 AAXCTTTGGAGGAGATCxGCAGTGATTCTTGATCGCCATCGGGGAGAAAGTGACA
 2ATP3 AAXCTTTGGAGGAGATCxGCAGCGAATTCTTGATCGCTATCGGGGAGAAAGTGATA
 2ATP4 AAXCTTTGGAGGAGATCxGCAGTGATTCTTGATCGCCATCGGGGAGAAAGTGACA
 2ATP5 AAGCTTCGGAGGAGACTGCAGTGATTCTGATCGCATTTCGGGGAGAAATGCC

Class III

3ATP1 AAGCTxGGAGGAGGAACTGCAGCGATTCGTGAACTGGTAACGGGGAGGGCT
 Previously Selected ATP Aptamer
GCTTGAGGAGTATTGCGGGGAAAGC

C GTP Aptamer

Class I

1GTP1 AAGxxxGGGGTGGTTTCCGCAGTGATTCTTGATCGGGAAGTTGGTGGGGGGT
 1GTP2 AAGxxxGGGGTGGTTTCCGCAGGCAATTCTTGATCGGGAAGGTCTGGGGGGGT
 1GTP3 AAGxxxGGGGTGGTTTCCGCAGGCAATTCTTGATCGGGAAGTTGGGGGGGGT
 1GTP4 GAGxxxGGGGTGGTTTCCGCAGGCAATTCTTGATCGGGAAGGTCTGGGGGGGT
 1GTP5 AAGxxxGGGGTGGTTTCTGCAGTGATTCTGATCGGGAAGTTGGGGGGGGGT

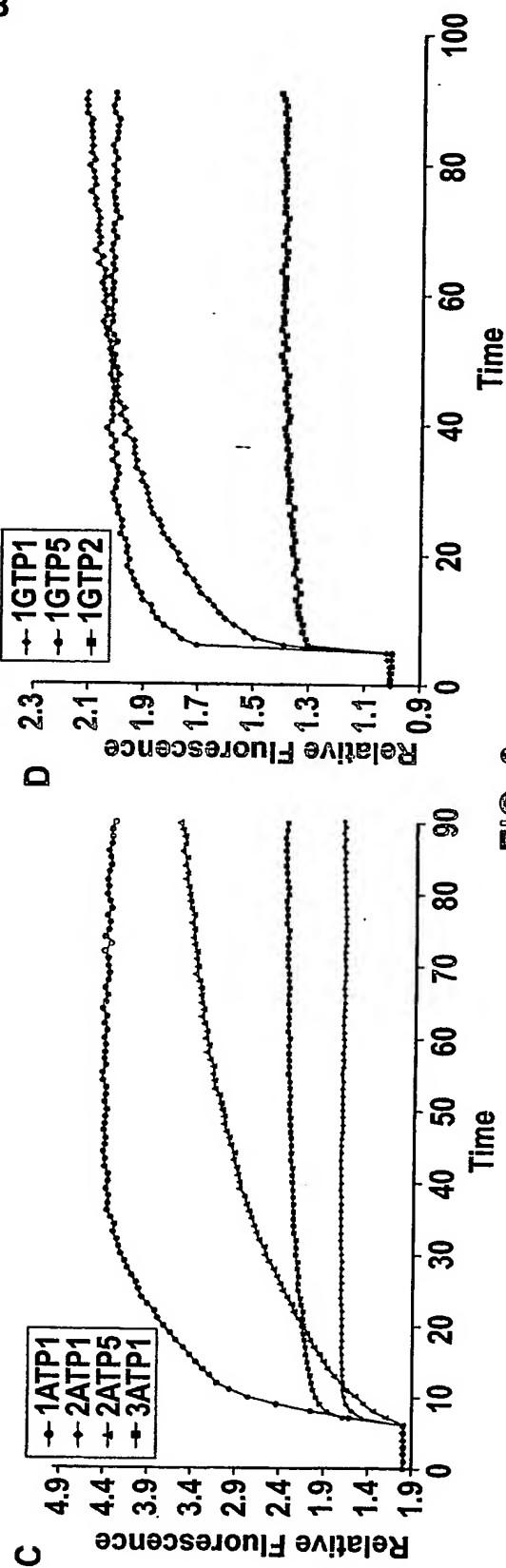
FIG. 5

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Q	GACGTGGCTAACGAAAC	AAAAAAAACGCCAT - Biotin
A	CCTGCCACGGCTCCGCAAGCTT N ₁₀	CTGCAGCGATTCTTGATCG
F	GGACGGTGGAGGGC	N ₂₀ TAAGGCTTGGCACCCGGATCGT rATTCGAACCGTGGCGTAGCCA

B
 1ATP1 CCTGCCACGCTCCGCAACTTGGAGGATCGAGGATCTCGGAAAGCTCCGAAGCTCCGCTCCGAAAGGAGGAACGCTGGAGGAACTGCAGTGTGATCTGCAATTTCGGGAGAATGCCTAAGCTGGCACCCGATC GT
 2ATP1 CCTGCCACGCTCCGCAACTTGGAGGATCGAGGATCTGGATCGTCACTGGGAGAAGTGTATAAGCTGGCACCCGATC GT
 2ATP5 CCTGCCACGCTCCGCAAGCTCCGAAGCTCCGCTCCGAAAGGAGGAACGCTGGAGGAACTGCAGTGTGATCTGCAATTTCGGGAGAATGCCTAAGCTGGCACCCGATC GT
 3ATP1 CCTGCCACGCTCCGCAAGGAGGAACGCTGGAGGAACTGCAGCAGTGTGATCGGAAAGGGTAACGGGGAGGCTTAAGCTGGCACCCGATC GT

 1GTP1 CCTGCCACGCTCCGAAAGGGGGTTGGTGGGGAGGGTAAGCTGGCACCCGATC GT
 1GTP2 CCTGCCACGCTCCGCAAGGGGGTTGGTGGGGAGGGTAAGCTGGCACCCGATC GT
 1GTP5 CCTGCCACGCTCCGCAAGGGGGTTCTGCAGTGTGATCTGCAATTTCGGGAGGTTAACGCTGGCACCCGATC GT



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FIG.

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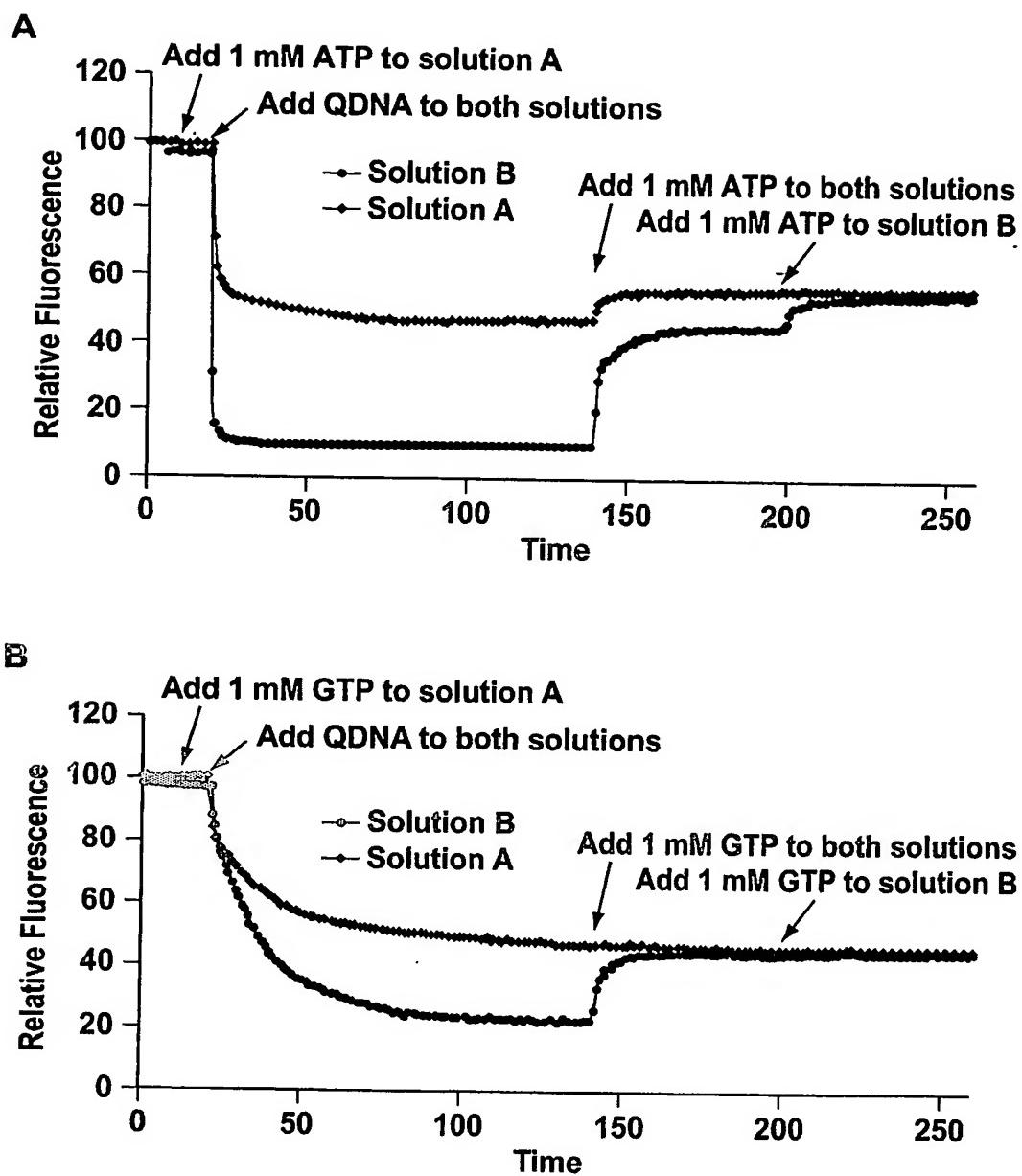


FIG. 7

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